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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/571,721	03/13/2006	Mikio Inoue	VPM00601	7786
26339 7590 04/09/2008 MUIRHEAD AND SATURNELLI, LLC 200 FRIBERG PARKWAY, SUITE 1001 WESTBOROUGH, MA 01581				
EXAMINER				
AJIBADE AKONAI OLUMIDE				
ART UNIT		PAPER NUMBER		
2617				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/571,721

**Applicant(s)**

INOUE, MIKIO

**Examiner**

OLUMIDE T. AJIBADE AKONAI

**Art Unit**

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 13 March 2006.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-13 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-7 is/are rejected.  
7) ☒ Claim(s) 8-13 is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 13 March 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO-8508)  
Paper No(s)/Mail Date 09/21/2006, 11/03/2006  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_  
5) ☐ Notice of Inventor's Patent Application  
6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Objections*

1. Claims 8-13 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 8-13 have not been further treated on the merits.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by **lizuka JP 2000-236375**.

Regarding **claim 1**, lizuka discloses an information communication terminal (cell phone unit 100, see fig. 1, page 4, [0029]) comprising: image display means for displaying images (see fig. 1, page 4, [0030]); image projection means (projection section 103, see fig. 1, page 4, [0029]) for projecting images onto an external projection screen (projecting images from cell phone unit 100 to wall 302 and 601, and palm 501, and see figs. 4-6, page 4, [0031], page 5, [0047], [0051]); and control means for controlling the image projection means (CPU 110, see fig. 1, page 4, [0038], page 5, [0042]); the information communication terminal further comprising data memory means for memorizing data of dedicated images for projection which are different from images

displayed by the image display means (memory section 109, see page 4, [0030], [0038]); wherein the control means controls the image projection means to read out data of a dedicated image for projection from the data memory means when projecting images, and project the dedicated image for projection (see page 4, [0037]-[0038], page 5, [0042]).

Regarding **claim 2**, as applied to claim 1, lizuka further discloses the information communication terminal comprising information receiving means for receiving information via communication networks (radio communications department 106, see fig. 1, page 4, [0030], [0034]); wherein the control means (CPU 110, see fig. 1, page 4, [0038], page 5, [0042]), when information is received by the information receiving means, controls the image projection means to project an incoming notification image dedicated to projection as the dedicated image for projection which can be set up independently from incoming notification images displayed by the image display means (displaying projection image data from the screen of a cell phone unit, see page 2, [0001], page 3, [0006], page 5, [0051]).

Regarding **claim 3**, as applied to claim 1, lizuka further discloses an information communication terminal according to claim 1, the information communication terminal comprising: information receiving means for receiving information via a communication network (radio communications department 106, see fig. 1, page 4, [0030], [0034]); and sound output means for outputting sound (104, see fig. 1, page 4, [0030]); wherein the control means, when information is received by the information receiving means, controls the sound output means to output incoming sound for image projection, which

is different from normal incoming sound when the dedicated image for projection are not projected (see page 2, [0001], page 3, [0006], page 4, [0035], page 5, [0051]).

Regarding **claim 4**, as applied to claims 1, 2, or 3, lizuka further discloses wherein the control means controls so that an operation of the image projection means is kept stopping during standby status for receiving the information, and an image projection is started by activating the image projection means when information is received by the image receiving means (projecting images from cell phone unit 100 to wall 302 and 601, and palm 501, and see figs. 4-6, page 4, [0031], page 5, [0047], [0051]).

Regarding **claim 5**, as applied to claim 1, lizuka further discloses wherein the data memory means memorizes multiple kinds of individual image data including displayable images with the image display means and the dedicated images for projection (memory section 109, see page 4, [0030], [0038]); and the control means (CPU 110, see fig. 1, page 4, [0038], page 5, [0042]) controls the image projection means to combine multiple individual image data which are read out selectively from the data memory means, to generate data of dedicated images for projection as subjects to be projected, and to project the dedicated images for projection as subjects to be projected onto the external projection screen (projecting images from cell phone unit 100 to wall 302 and 601, and palm 501, and see figs. 4-6, page 4, [0031], page 5, [0047], [0051]).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
  2. Ascertaining the differences between the prior art and the claims at issue.
  3. Resolving the level of ordinary skill in the pertinent art.
  4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
5. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over **lizuka JP 2000-236375** in view of **Kleinschmidt et al 6,085,112 (hereinafter Kleinschmidt)**.

Regarding **claim 6**, as applied to claim 1, lizuka discloses the claimed invention except an information communication terminal according to claim 5, wherein each of the multiple kinds of individual images is projected while being allocated to multiple individual projection areas on the external projection screen.

In the same field of endeavor, Kleinschmidt discloses, in a mobile terminal (communication device k, see fig. 1, col. 3, lines 66-67) capable of projecting a displayed image (see fig. 3, col. 5, lines 61-65), wherein each of the multiple kinds of individual images is projected while being allocated to multiple individual projection areas on the external projection screen (see fig. 3, col. 5, lines 61-65).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Kleinschmidt by projecting a screen with multiple kinds of images from a mobile communication device, into the system of Iizuka for the benefit of providing a method of projecting multiple images.

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Iizuka JP 2000-236375** in view of **Kleinschmidt et al 6,085,112 (hereinafter Kleinschmidt)** as applied to claim 6 above, and further in view of **Reyes et al 20040204126 (hereinafter Reyes)**.

Regarding **claim 7**, as applied to claims 5 or 6, Iizuka as modified by Kleinschmidt discloses the claimed limitations except the information communication terminal comprising the image display means that has multiple display units; wherein multiple kinds of individual images to be projected together onto the external project screen are individual images which are different from each other and displayed on each display unit.

However, Reyes discloses an information communication terminal (see fig. 1A), the information communication terminal comprising the image display means that has multiple display units (see fig. 1A, p.2, [0034]); wherein multiple kinds of individual images to be projected together onto the external project screen are individual images which are different from each other and displayed on each display unit (see abstract, p.2, [0034]-[0035]).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Reyes, by incorporating a multiple

screen display in a mobile terminal, into the system of Iizuka as modified by Kleinschmidt for the benefit of displaying data or video independently or in a combined form.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kurakane 20030092470 discloses multi-function portable data-processing device.

Linge 20020028698 discloses a display apparatus.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OA

/Charles N. Appiah/  
Supervisory Patent Examiner, Art Unit 2617